# Computing Reviews

PAMPHLET BOX

# **BIBLIOGRAPHY** and **SUBJECT INDEX** of CURRENT COMPUTING LITERATURE CHICAGO CINCIE

1971

Edited by AARON FINERMAN, LEE REVENS, and MARY NEUMEYER

ASSOCIATION FOR COMPUTING MACHINERY



# BIBLIOGRAPHY of CURRENT COMPUTING LITERATURE

1971

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# **ACKNOWLEDGMENTS**

The production of a Permuted and Subject Index of this scope involved the active participation of many individuals and organizations. We single out below some of the principal contributors; however, we express our appreciation to the numerous other participants who made the project possible.

In particular, Marc Feldman of the Jet Propulsion Laboratories developed the programs and coordinated the activities at JPL necessary for producing this Index. The programs were run on the UNIVAC 1108-EXEC 8 computing system. Robert Jirka and Thomas Smith supplied the necessary facilities and time.

We gratefully acknowledge the support of Gordon Smith, Executive Director, and Mrs. Irene Hollister, Executive Secretary, ACM, whose cooperativeness expedited the completion of the project; and the work of ACM Headquarters staff in keypunching the many entries and coping with the diverse problems encountered.

Finally, we wish to express our deep appreciation for all the attentive critics and alert users who generously informed us of the merits and utility of the previous indexes—and articulately prodded us into making the necessary improvements.

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# INTRODUCTION

THIS VOLUME continues the broader coverage, initiated in the 1966 Index, by going beyond citation of materials reviewed in COMPUTING REVIEWS. While this remains essentially an annotated bibliography through keying the citations to reviews that have appeared in COMPUTING REVIEWS, a step toward comprehensiveness is taken by citing nonreviewed materials representing: (1) works that normally should have been reviewed earlier in CR's history but that for diverse reasons failed to appear, and (2) marginal materials that could not be processed with our limited facilities of space, staff, and volunteer reviewers, but that still merit listing in a full-scale bibliography. This category has 0000 as the first part of the key number; such materials will probably never be reviewed in CR.

Comprehensiveness of coverage deserves further discussion. It is possible to regard comprehensiveness as automatic coverage of every paper in a selected list of periodicals, even when these are trivial, or of limited pertinence to computing, but it is also possible to regard it as coverage of all pertinent articles from a wide range of materials, including the single article in a particular issue of a periodical that normally does not touch on computing, while deliberately omitting coverage of nonpertinent papers in periodicals that are generally concerned with computing. The emerging policy of CR and its index volumes is to blend these definitions, and undertake to be comprehensive by citing every paper in a selected list of periodicals and proceedings, while reviewing only those that are substantive and pertinent; and to review pertinent, substantive materials wherever findable in sources apart from this announced list. With these standards, more adequately applied since the first issue of 1967, CR undertakes to provide, in its index volumes, a bibliography of computing literature that is increasingly truly comprehensive. The bibliography of the current Index references approximately 2500 titles.

# TO THE USER

#### Reference Code:

The reference number directs the reader to the issue of COMPUTING REVIEWS that contains the review of that material. This reference number is a key to the year, volume, issue and review number. (Thus 71121 20,413 represents 1971, volume 12, issue 1, and review number 20,413.)

# Bibliography and Author Index:

Apparent redundancies may be noted in the Author Index and the Bibliography. As may be recognized, this results from the policy of citing, when possible, all the contributing authors and their individual papers for anthologies or composite volumes that have a general title and editor. Thus, under a main entry review, the Bibliography will show the principal title (e.g., Advances in Computers), and all the authors and editors; but under separate reviews of individual papers, the title and author

again. Similarly, the Author Index may show the author twice: once for the principal title, and once for his individual contribution. As an additional service to the reader, if the original paper (not the review) was in a language other than English, the citation indicated the language in parenthesis (e.g., Russian) following the title.

In using the Author Index, multiple reviews of seemingly identical material will occasionally be referenced. This happens most frequently when the material came as a full (translated) paper from one source, and was independently picked up at another time from a foreign language abstract or review journal, and cited as a title only. These diverse sources, it may be noted, offer variant translations of titles—as those working in mechanical translation would expect—thus making difficult the editorial problems of eliminating such multiple reviews.

#### Permuted Index and Classification Index:

In general, a Permuted Index requires minimal editing, and lets the user develop his own retrieval approaches, cautioning him only as to words that have been blocked, and some inflexibilities of machine indexing.

To maximize the subject index (Classification Section) utility of this volume it is suggested that the user identify the CR category headings (given in full pp. ix, x) that relate to his topic, and systematically search the listing under each Classification at the appropriate subsection levels. The occasional parallelisms and apparent redundancies of the CR classification system are a tribute to the encompassing range of information processing and its applications. Distinctions and differentations turn on the fact (implied when not explicit) that computing and information processing are the orientation of the categories. Thus, 1.0 General Topics and Education is about computing and education in computing. In 3.32 the "education" stands for the application of computing to education of any sort, (not just of education about computing), as a tool of research in education, as a facilitator of teaching methods (e.g., computer-aided teaching machines, classroom consoles, etc., would be reviewed here); in contrast, at 3.51 the managerial aspects of education, as aided by computer, from student registration and class-sectioning, to the largest problems of school administration are reviewed. Similarly, 5.5 is not statistics, but about computing applied to statistics, as in Monte Carlo methods, and random number generation, and about statistical work that contributes to computing theory and practice.

It may be noted that the Permuted Index and the Classification Section supplement one another in providing the user with, first, a narrow topic guide, and secondly, a safety net. The contrasting virtues and utilities of the two sections may be illustrated by (actual) retrieval questions. If the user wants, for example, materials on classroom sectioning and scheduling by computer, he can, in the Permuted Section look under scheduling, sectioning, and even class assignment. But, if the author of a paper has used none of these terms in the title, the paper can still be retrieved by looking in 3.32 Applications in Social

Sciences—Education; Welfare, and in 3.51 Applications in Management Data Processing—Education.

The Permuted Index Section is time-saving if the significant word is definite and appears in the title, since the user can then turn immediately to that word in its alphabetical order. The Classification Section provides a longer listing, but guarantees that reading through it will turn up every relevant title, no matter how disguised in its wording. Further, the fact that the reviews were cross-referenced by the reviewer and CR staff assures that materials having a bearing on the user's topic will be retrieved, even if primarily not a title or a classification he would ordinarily consult. Thus, a paper on computing centers at universities (classified under 2.40 Administration of Computing Centers, General) that discussed the class-scheduling system produced as a service to the university would appear under 3.51 because the reviewer had noted its pertinence to this category.

Titles vary in the fashion in which they referred to specific computers and model numbers. Again, to assure consistent permuting, the manufacturer's name (in parenthesis) has been added to the title when the model number was listed without it. The user should therefore look under the manufacturer when seeking references to a specific machine.

Blocked Words:

Conventionally, a permuted index is modified by a varying number of blocked words—words not used as an entry. These are usually non-significant particles (a, and; for, which, etc.). To these are frequently added the words in the particular subject matter that would swamp the index by turning up too often. (In this volume, for example, computing, automatic, programming, etc.) A rather more critical standard was necessary for the present index. The user should note that numerals, prepositions, conjunctions, pronouns, auxiliary verbs in all their forms, and the like have been blocked. In addition, vague words (recent, new) and many words that occurred only once or twice, and are not essentially self-evident keywords in computing, have also been blocked (arise, lag, quarterly, today, etc.). Place names have generally (but not always) been blocked.

Hyphens were used when necessary to prevent blocking of phrases consisting of words that are each blocked individually. Thus, although each of the three words in electronic-data-processing is blocked, the phrase is made to permute as a unit by adding hyphens to the original title.

The user is reminded that if any entry is not found in the Permuted Section where he expects it, consulting the Classification Section may guide him to the location of material he is seeking.

# CATEGORIES OF THE COMPUTING SCIENCES

# CLASSIFICATION SYSTEM FOR COMPUTING REVIEWS

# 1. GENERAL TOPICS AND EDUCATION

- 1.0 General
- 1.1 Texts: Handbooks
- 1.2 History; Biographies
- 1.3 Introductory and Survey Articles
- 1.4 Glossaries
- 1.5 Education
  - 1.50 General
  - 1.51 High School Courses and Programs
  - 1.52 University Courses and Programs
  - 1.53 Certification; Degrees; Diplomas
  - 1.59 Miscellaneous
- 1.9 Miscellaneous

# 2. COMPUTING MILIEU

- 2.0 General
- 2.1 Philosophical and Social Implications
  - 2.10 General
  - 2.11 Economic and Sociological Effects
  - 2.12 The Public and Computers
  - 2.19 Miscellaneous
- 2.2 Professional Aspects
- 2.3 Legislation; Regulations
- 2.4 Administration of Computing Centers
  - 2.40 General
  - 2.41 Administrative Policies
  - 2.42 Personnel Training
  - 2.43 Operating Procedures
  - 2.44 Equipment Evaluation
  - 2.45 Surveys of Computing Centers
  - 2.49 Miscellaneous
- 2.9 Miscellaneous

#### 3. APPLICATIONS

- 3.1 NATURAL SCIENCES
  - 3.10 General
  - 3.11 Astronomy; Space
  - 3.12 Biology
  - 3.13 Chemistry
  - 3.14 Earth Sciences
  - 3.15 Mathematics; Number Theory
  - 3.16 Meteorology
  - 3.17 Physics; Nuclear Sciences
  - 3.19 Miscellaneous
- 3.2 Engineering
  - 3.20 General
  - 3.21 Aeronautical; Space
  - 3.22 Chemical
  - 3.23 Civil
  - 3.24 Electrical; Electronic
  - 3.25 Engineering Science
  - 3 26 Mechanical
  - 3.29 Miscellaneous
- 3.3 Social and Behavioral Sciences
  - 3.30 General
  - 3.31 Economics

- 3.32 Education; Welfare
- 3.33 Law
- 3.34 Medicine; Health
- 3.35 Political Science
- 3.36 Psychology; Anthropology
- 3.37 Sociology
- 3.39 Miscellaneous
- 3.4 HUMANITIES
  - 3.40 General
  - 3.41 Art
  - 3.42 Language Translation and Linguistics
  - 3.43 Literature
  - 3.44 Music
  - 3.49 Miscellaneous
- 3.5 Management Data Processing
  - 3.50 General
  - 3.51 Education; Research
  - 3.52 Financial
  - 3.53 Government
  - 3.54 Manufacturing; Distribution
  - 3.55 Marketing; Merchandising
  - 3.56 Military
  - 3.57 Transportation; Communication
  - 3.59 Miscellaneous
- 3.6 ARTIFICIAL INTELLIGENCE
  - 3.60 General
  - 3.61 Induction and Hypothesis-formation
  - 3.62 Learning and Adaptive Systems
  - 3.63 Pattern Recognition
  - 3.64 Problem-solving
  - 3.65 Simulation of Natural Systems
  - 3.66 Theory of Heuristic Methods
  - 3.69 Miscellaneous
- 3.7 Information Retrieval
  - 3.70 General
  - 3.71 Content Analysis
  - 3.72 Evaluation of Systems
  - 3.73 File Maintenance
  - 3.74 Searching
  - 3.75 Vocabulary
  - 3.79 Miscellaneous
- 3.8 REAL TIME SYSTEMS
  - 3.80 General
    - 3.81 Communications
    - 3.82 Industrial Process Control
    - 3.83 Telemetry; Missiles; Space
  - 3.89 Miscellaneous
- 3.9 Miscellaneous

# 4. PROGRAMMING

- 4.0 General
- 4.1 Processors
  - 4.10 General
  - 4.11 Assemblers
  - 4.12 Compilers and Generators
  - 4.13 Interpreters

- 4.19 Miscellaneous
- 4.2 Programming Languages
  - 4.20 General
  - 4.21 Machine Oriented Languages
  - 4.22 Procedure and Problem Oriented Languages
  - 4.29 Miscellaneous
- 4.3 Supervisory Systems
  - 4.30 General
  - 4.31 Basic Monitors
  - 4.32 Multiprogramming; Multiprocessing
  - 4.39 Miscellaneous
- 4.4 Utility Programs
  - 4.40 General
  - 4.41 Input/Output
  - 4.42 Debugging
  - 4.43 Program Maintenance
  - 4.49 Miscellaneous
- 4.9 Miscellaneous

# 5. MATHEMATICS OF COMPUTATION

- 5.0 General
- 5.1 NUMERICAL ANALYSIS
  - 5.10 General
  - 5.11 Error Analysis; Computer Arithmetic
  - 5.12 Function Evaluation
  - 5.13 Interpolation; Functional Approximation
  - 5.14 Linear Algebra
  - 5.15 Nonlinear and Functional Equations
  - 5.16 Numerical Integration and Differentiation
  - 5.17 Ordinary and Partial Differential Equations
  - 5.18 Integral Equations
  - 5.19 Miscellaneous
- 5.2 METATHEORY
  - 5.20 General
  - 5.21 Formal Logic
  - 5.22 Automata; Turing Machines
  - 5.23 Mechanical and Algorithmic Languages
  - 5.24 Theory of Programming
  - 5.29 Miscellaneous

- 5.3 Combinatorial and Discrete Mathematics
  - 5.30 General
  - 5.31 Sorting
  - 5.32 Graph Theory
  - 5.39 Miscellaneous
- 5.4 MATHEMATICAL PROGRAMMING
  - 5.40 General
  - 5.41 Linear and Nonlinear Programming
  - 5.42 Dynamic Programming
  - 5.49 Miscellaneous
- 5.5 Mathematical Statistics; Probability
- 5.6 Information Theory
- 5.9 Miscellaneous

### 6. DESIGN AND CONSTRUCTION

- 6.0 General
- 6.1 Logical Design; Switching Theory
- 6.2 Computer Systems
  - 6.20 General
  - 6.21 General Purpose Computers
  - 6.22 Special Purpose Computers
  - 6.29 Miscellaneous
- 6.3 Components and Circuits
  - 6.30 General
  - 6.31 Circuit Elements
  - 6.32 Arithmetic Units
  - 6.33 Control Units
  - 6.34 Storage Units
  - 6.35 Input/Output Equipment
  - 6.36 Auxiliary Equipment
  - 6.39 Miscellaneous
- 6.9 Miscellaneous

# 7. ANALOG COMPUTERS

- 7.0 General
- 7.1 Applications
- 7.2 Design; Construction
- 7.3 Hybrid Systems
- 7.4 Programming; Techniques
- 7.9 Miscellaneous

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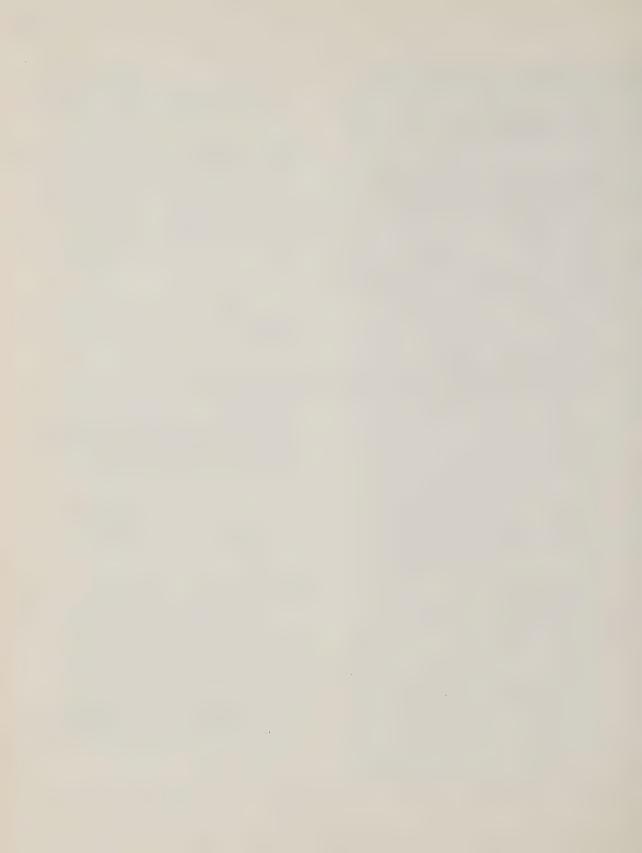
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